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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|-------------------------------|------------------|
| 09/920,813 | 08/03/2001 | Morris Peng | LIE 149 | 7159 |
| 7590 12/16/2004 RABIN & CHAMPAGNE, P.C. 1101 14th Street, N.W., Suite 500 Washington, DC 20005 | | | EXAMINER KNOWLIN, THJUAN P | |
| | | | ART UNIT 2642 | PAPER NUMBER |

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/920,813

Applicant(s)

PENG, MORRIS

Examiner

Thjuan P Knowlin

Art Unit

2642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 August 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections – 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Braund (US 6,373,942).
2. In regards to claim 1, Braund discloses a wireless communication apparatus (Fig. 12, Fig. 13, and col. 11 lines 22-24) with built-in terminal hub for transmitting a wireless signal (col. 3 lines 20-29), comprising: a PCB (Printed Circuit Board) (printed circuit board 62); a built-in antenna module (antenna 84) disposed on the PCB for transmitting the wireless signal; and an input terminal hub coupled with the PCB for connecting a computer (computer 82) (col. 8 lines 8-21).
3. In regards to claim 2, Braund discloses the wireless communication apparatus, further comprising: an output terminal hub coupled with the PCB for connecting a peripheral device (col. 3 lines 17-23).
4. In regards to claims 3 and 4, Braund discloses the wireless communication apparatus, wherein the computer uses the wireless communication apparatus to

communicate with an outside computer equipped with another wireless communication apparatus (col. 3 lines 17-23 and col. 8 lines 8-16).

5. In regards to claim 5, Braund discloses the wireless communication apparatus, wherein the wireless control device is a cordless mouse (col. 8 lines 8-13 and col. 8 lines 30-37).

6. In regards to claim 6, Braund discloses the wireless communication apparatus, wherein the wireless control device is a wireless keyboard (col. 8 lines 8-13 and col. 8 lines 30-37).

7. In regards to claim 7, Braund discloses the wireless communication apparatus, further comprising: a casing (support member 60 and protective flexible cover 64) for containing the PCB and the built-in antenna module to protect the configuration inside the wireless communication apparatus (Fig. 2, Fig. 5, and Fig. 8).

8. In regards to claims 8 and 10, Braund discloses the wireless communication apparatus, wherein the input terminal hub is an USB (Universal Series Bus) terminal hub (col. 3 lines 20-23).

9. In regards to claims 9 and 11, Braund discloses the wireless communication apparatus, wherein the output terminal hub is an USB (Universal Series Bus) terminal hub (col. 3 lines 20-23).

10. In regards to claim 12, Braund discloses the wireless communication apparatus, wherein the transmission of the wireless communication apparatus is a one-way signal (col. 8 lines 26-32).

11. In regards to claims 13 and 16, Braund discloses the wireless communication apparatus, wherein the transmission of the wireless communication apparatus is a two-way signal transmission (col. 8 lines 26-32).
12. In regards to claims 14 and 15, Braund discloses the wireless communication apparatus, wherein the wireless communication apparatus is a one-way 2.4 GHz multiple-channel FM/FSK receiver (col. 8 lines 26-32).
13. In regards to claim 17, Braund discloses the wireless communication apparatus, wherein the wireless communication apparatus employs a Bluetooth solution (col. 3 lines 20-29 and col. 8 lines 26-32).
14. In regards to claims 18 and 19, Braund discloses the wireless communication apparatus, wherein the built-in antenna module is a phase matrix antenna module (col. 8 lines 8-25).

Conclusion


15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Vij et al (US 6,452,910) teach a bridging apparatus for interconnecting a wireless PAN and a wireless LAN.
16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thjuan P Knowlin whose telephone number is (703) 308-1727. The examiner can normally be reached on Mon-Fri 8:00-4:30pm.

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17. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (703)305-4731. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

18. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thjuan P. Knowlin


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